Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at http://about.jstor.org/participate-jstor/individuals/early-journal-content.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

BULLETIN
of the
ECOLOGICAL SOCIETY OF AMERICA

Vol 2 April, 1918. No. 4

Published monthly by the Ecological Society of America. Forrest Shreve, Secretary-Treasurer, Tucson, Arizona.

Entered as second class mail matter January 24, 1917, at the Post Office at Tucson, Arizona under the Act of August 24, 1912.

SUPPLEMENT TO THE HANDBOOK.

As it does not seem practicable at the present time to publish a complete revised Handbook of the Society, the following supplement has been prepared to give information regarding the members who have joined during the past year. A list is also given of all changes of address and of all losses of membership through resignation or death.

The form of information blank that is now used is the same that was filled by the charter members, and the parenthetical numbers in each statement refer to the questions given on page 8 of the Handbook. The original edition of the Handbook formed the third number of the first volume of the Bulletin (March, 1917). A limited number of copies are still on hand and can be supplied to any members who may have failed to receive them.

The attention of members is called to the provision of the constitution by which the Executive Committee is empowered to pass upon applications for membership. This makes it possible to elect new members at any time between the stated annual meetings of the Society. Information blanks for the proposal of new members may be secured from the Secretary. The influence of the Society will be greatly strengthenel and its opportunities greatly enlarged by a material increase of membership, and it is hoped that every member will make an effort to secure one or two new names.

Abbott, Charles Harlan, Biological Laboratory, Brown University, Providence, R. I. (A. B., A. M.). (2) The behavior of land Isopoda with relation to ecological factors. (3) Cold Spring Harbor, L. I., Woods Hole, Mass.; Providence, R. I.; Antrim, N. H.; Friday Harbor, Wash.; Pullman, Wash. (5) Isopoda, Polychaete annelida, birds. (6) Controlled experiments on light reactions. Laboratory experiments on various reactions and resistance to environmental changes. Field studies of distribution. (7) Usual collecting and dredging equipment.

Allen, William Ray, 212 S. Washington St., Bloomington, Ind., (A. B., A. M.). (1) Feeding habits of freshwater mussels. (2) Ecology of land and freshwater Mollusca. (3) Indiana, central New York, Woods Hole, Mass. (4) New York, Indiana, eastern Kansas. (5) Unionidae, birds. (6) Field observation, selective feeding. (7) Common limnological methods.

Baker, Frederick S., U. S. Forest Service, Ogden, Utah. Forest Examiner (F. E.). (2) The general relation of plant growth to climate. As officer in charge of silvical studies at the Utah Experiment Station I am doing much work of an ecological nature in relation to artificial reforestation, type, climatic and soil studies. (3) Central Utah. (4) New Hampshire, Massachusetts, central Colorado, northern New Mexico, eastern Idaho. (6) Soil sampling, quadrat work, light intensity, general climatic factor determinations, including atmometry. (7) Various types of geotomes, standard Weather Buerau instruments, Livingston atmometers, Clements photometer, pick and shovel.

Baker, O. E., 3614 Newark St., N. W., Washington, D. C. Agriculturist, Department of Agriculture. (1) The Climate of Wisconsin and its Relation to Agriculture. Geography of the World's Agriculture. Advance folios in press of Atlas of American Agriculture. (2) Relation of climatic and soil factors to the distribution of the crops. (3) The work of the Department along this line includes the entire United States. (4) Wisconsin and localities in several of the western states. (6) Our work is statistical rather than experimental.

Blake, Irving Hill, 219 Clarendon St., Syracuse, N. Y. Instructor in Zoology, Syracuse University (A. M.). (2) Field biological survey, especially distribution, habits and taxonomy of mammals, birds, reptiles. (3) Western Oregon and parts of Maine. (4) Many parts of New England, especially Maine; also parts of New York, especially Long Island. (5) Mammals, birds, reptiles and amphibia. (6) The field methods advocated and employed by the U. S. Biological Survey with special emphasis on ecological notes. (7) The usual outfit for collecting and making mammal and bird skins (traps, shotgun, skinning and stuffing tools, preservatives, steel tape, aneroid, plant presses, etc.).

Brooks, Charles Franklin, Box 896 Yale Station, New Haven, Conn. Instructor in Geography, Yale University (A. B., A. M., Ph. D.). (2) Human relations to climate. Some particular work has been done on seed-time and harvest maps of the United States. (3) United States.

Brown, James Greenlief, The University of Arizona, Tucson, Ariz. Assistant Professor of Botany (B. S., M. S.). (1) None that are purely ecological. Papers in experimental morphology overlap ecology. (2) Influence of light, temperature, moisture, etc., on structure. Paper on effect of various rays on structure of leaf and shoot; information slowly collecting on algal succession in mountain stream. (3) Chicago region; Cebu Island, Philippine Islands; Tucson region, Arizona. (4) See above; also the entire state of Michigan and several points in Mexico from the Texas boundary to Vera Cruz.

Brown, Lawrason, Saranac Lake, N. Y., (A. B., M. D.). (1) Environment and pulmonary Tuberculosis. (2) Variations in the Tubercle bacillus and the effect of climate on recovery in disease. (3-4 **The Adirondacks.**

Churchill, E. P., U. S. Bureau of Fisheries, Washington, D. C. (Ph. D.). Assistant in Bureau of Fisheries, in charge of oyster culture work. (2) Migration and life history of the edible crabs of Cheasapeake Bay. (3) Cheasapeake Bay. (4) Upper Mississippi Valley, especially Iowa and Illinois, with special reference to Mississippi regions. (6) Historical study of food absorption, behavior of fishes, handling and experimentation with crabs in floats and crates. Experiments in raising oysters to spat stage under laboratory conditions. (7) Field microscopes and deep sea thermometers, ship logs.

Curran, Hugh McCullum, Laurel, Md. (2) Distribution and composition of tropical forests. (3) Forest exploration of Philippine Islands, Argentine, Brazil, Colombia.

Deam, Charles C., Bluffton, Ind. (1) General papers; trees of Indiana. (2) Am working on the distribution of the flowering plants of Indiana. (3) In all parts of Indiana. (5) **Smilax, Fraxinus, Quercus, Pentstemon** (species occurring in Indiana).

Ekblaw, Walter Elmer, 255 Natural History Hall, University of Illinois. Staff Fellow, University of Illinois. Research Associate American Museum of Natural History, New York (A. B., A. M.). (1, 2) Phytogeography, especially of Arctic regions. Ecology of Arctic and Subarctic life. (3) Central Illinois, Greenland, Ellesmereland. (4) Virginia, the Dune region about Southern Lake, Mich. (5) **Taraxacum, Potentilla, Hieracium.** (6) Quadrat charting, transecting etc. Quantitative studies of soil and climatic factors. (7) Thermometric, Photometric, Gravimetric, etc.

Delafield, Maturin Livingston, 29 Avenue Davel, Lausanne, Switzerland. (2) Phytogeopraphy. (3, 4) Southern New York, Switzerland. (5) Spermatophyta.

de la Torre Bueno, J. R., 14 Dusenbury Place, White Plains, N. Y. (1) Life Histories and Habits of Aquatic Hemiptera. (2) In the above and on food plants and ecological relations of Heteroptera.

(3) In the vicinity of New York City and about White Plains. (4) The above, Westchester County, N. Y. (5) Heteroptera. (6) Life histories.

Forsling, Clarence L., Las Cruces, N. M. Grazing Examiner, Forest Service, in charge range investigations Jornada Range Reserve (B. S.). (2) Invasion and succession of vegetation on over grazed and fully grazed ranges in the Southwest. (3) Northern Utah, Southern New Mexico. (4) Appalachian Mountains. Prairie and plains of Nebraska. Forests of western Montana. Woodlands and pasture lands of Utah. Dry plains of New Mexico. (6) Quadrat list plat study of invasion and succession. (7) Soil sampling equipment, psychrometer, anemometer, quadrat equipment. (8) Wish to correspond regarding quadrat and list plat studies of changes in vegetation under grazing, factors of habitat and proper control of factors.

Freeman, Rowland Godfrey, 211 West 57th St., New York. Associate Professor of Pediatrics, University and Bellevue Hospital Medical School (M. D.). (1) Fresh air in relation to human health and therapeutics. (2) Fresh air. (3) New York.

Grabau, A. W., Columbia University, New York, City N. Y. Professor of Paleontology (A. M., S. D.). (1) Marine Invertebrate Ecology. (2) Migrations and habitats of marine organisms and comparison with extinct forms. (3) Atlantic coast, Europe and America. Older formations of Europe and North Anthozoa. (7) Dredge. dragnet.

Hopkins, L. S., State Normal College, Kent, Ohio. Head, Department Biological Science (A. M.). (2) The vegtation of city dumps. Bogs of northeastern Ohio. (5) **Pteridophytes.**

Kendall, William Converse, Bureau of Fisheries, Washington, D. C. Scientific Assistant, Bureau of Fisheries (A. M., M. D.). (1) Breeding habits and food of fishes, particularly salmonoid fishes. (2) Habits and interrelations of fishes, particularly Salmonidae. Aquatic botany. (3) New England, Atlantic coast states, Oregon. (4) Great Lakes. (5) **Fishes,** particularly **salmonoids.** (7) Various nets, traps, fishing tackle, sounding lines, thermometers, salinometers, etc.

Kisliuk, Max, Jr., 2474 Ontario Road, Washington, D. C. Scientific Assistant, Bureau of Entomology (B. Sc.). (1) Wintering conditions of flies. (2) Environments of flies. Factors and development. Environments of **Lasioderma sericornia,** the cigar beetle. (3) Maryland and Ohio, factory conditions in tobacco. (4) Maryland and Ohio. (5) Diptera to Families—specialty on common flies, **Muscids.** (7) Temperature and humidity instruments. Interested in evaporation instruments.

Jones, R. Chapin, University, Virginia. State Forester of Virginia and Professor of Forestry, University of Virginia (A. B., M. F.). (2) Silviculture. (4) Middle Atlantic States, particularly, also Northwest, Southeast and northern Rocky Mountains. (7) Those used in forestry and surveying.

Linker, George J., Carthage, Ill. Assistant in Biology (B. S.). (2) Transpiration during winter. (3) Northern Michigan, Illinois. (4) Northern Michigan, Illinois.

Lull, Richard Swann, Yale University, New Haven, Conn. Professor Vertebrate Paleontology (B. Sc, M. Sc., A. M., Ph. D.). (1) Influence of climate on evolution of prehistoric animals. Monographs, papers, text-book, etc. (2) Vertebrate paleontology, especially environment and habitat conditions of Dinosaurs, etc. (3) Trias of Connecticut Valley, cretaceous of Wyoming. (4) Miocene of Nebraska, etc. (5) **Fossil reptiles** and **mammals.** (7) Usual tools of a paleontologist.

Morrill, Albro D., Hamilton College, Clinton, New York. (2) Physiology on animals and plants.

Nelson, Edgar, 624 Beatty Bldg., Houston, Tex. Deputy State Nursery Inspector (B. A.). (2) Bog and swamp formations. (3) Around Ithaca, N. Y. (4) Florida, Southern Texas. (5) Ferns, mosses, fungi, trees.

Parshley, Howard Madison, Smith College, **Northampton,** Mass. Assistant Professor of Zoology (A. M., Sc. D.). (1) Distribution and ocean flights of insects, chiefly Hemiptera. (2) Ecology of the New England Hemiptera. General interest in Invertebrata. (3) New England. (4) Eastern New York. (5) **Hemiptera.** (6, 7). Ordinary entomological and zoological methods and apparatus.

Plough, Harold H., Department of Biology, Amherst College, Amherst, Mass. Instructor in Biology (A. M., Ph. D.). (2, 3) The effect of temperature and other environmental conditions on Mendelian inheritance in **Drosophila.** (4) Massachusetts, Long Island. (5) Diptera, Orthoptera, Hypotricha. (6) Genetic research.

Poyser, W. A., 207 S. 37th St., Philadelphia, Pa. Editor, Aquatic Life. (1) Fern Flora of Pennsylvania (Fern Bulletin). (2) Fishes, ferns. (3) Middle, southern and eastern United States. (5) Ferns (North America), fishes.

Reeves, George I., 822 H St., Salt Lake City, Utah. Entomological Assistant, U. S. Department of Agriculture (B. A.). (1) Economic entomology. (2) Life history and behavior of the alfalfa weevil as affected by environmental factors. (3) North Dakota, Washington, Utah, the upper Mississippi Valley. (4) Northern half of the United States, except New England. (5) Diptera, Coleoptera.

(6) Rearing insects in cages. (7) Thermograph, psychrometer, Piche evaporimeter, hygrograph.

Retan, George A., State Forest Academy, Mont Alto, Pa. Professor of Forestry (B. F.). (1) Silvicultural conditions in Pennsylvania. (2) Forest types of Pennsylvania. Influence of moisture and acidity in nursery work. (3) General survey in Pennsylvania. (4) Northern and central Pennsylvania especially.

Rübel, Edward August, Zürichbergstrasse 30, Zürich, Switzerland. Privatdozent at the Eidg. Technische Hochschule (Ph. D.). (1) Photochemic climate of Bernina district, of Canaries, Algiers. Vegetation of Bernina district. (2) Conception and conditions of plant communities. Research methods in ecological geobotany. (3) Bernina district, Engadine. (4) United States of America, England, Scotland, Ireland, Spain, Canary Isles, Algiers, Caucasus, Alps. Corsica. (6) Light measurements, sun, temperature, etc., climatological, edraphic and biotic factors. Cobalt transpiration meter. (7) Light recorders, barometer, thermometer, sunshine recorder, evaporimeter, anemometer.

Rydberg, Per Axel, New York Botanical Garden, New York City, N. Y. Curator (Ph. D.) (1, 2) Phytogeographical Notes on the Rocky Mountain Region. Life Zones in the Rocky Mountains. (3) Rocky Mountain Region and the Great Plains. (4) Great Basin. (5) Flora of the Rocky Mountains and the Great Plains. Rosaceae, Saxifragaceae (partly) Papilionaceae (partly), Compositae (from the tribe Heleniae, etc.).

Shoub, Hyman L., Hygenic Laboratory, Washington, D. C. Sanitary Bacteriologist, U. S. Public Health Service (B. S.). (2) Relation of temperature, humidity and air motion to human comfort. (3) Washington, D. C. (5) Human group. (7) A new instrument made for the purpose of measuring comfort conditions, the Comfortmeter.

Strausbaugh, P. D., 149 University St., Wooster, Ohio. Assistant Professor of Botany, College of Wooster (B. S.). (2) Observations on the continuity of vegetation and reproduction in **Taraxacum.** (3, 4) Northern Ohio, particularly the Wooster region. The Chicago region. (7) Atmometer cups, cobalt paper method of measuring transpiration, potometer, Hilgard's method of determining water capacity of soils.

Surber, Thaddeus, 1117 Sixth St., Hudson, Wis. (1) Mammals. Fresh water mussels. (2) Salmonidae, sturgeon, Unionidae. (3) South Atlantic States, New Brunswick, Oklahoma, Missouri, upper Mississippi Valley, northern Minnesota, West Virginia, Quebec. (4) Arkansas, Kansas, Wisconsin. (5) Glochidia of the **Unionidae.**

Isospondyli, Muridae. (7) Only such as are in general use by a professional collector and taxidermist.

Thiel, Albert Frederick, University Farm, St. Paul, Minn. Field Assistant in Cereal Investigations, Bureau of Plant Industry. (A. B., M. A.). (1) Ecological studies in the Tension Zone between prairie and woodland. (2) Am working on: The effect of ecological factors on Puccinia graminis. (3) Minnesota and Nebraska. (4) Minnesota and Nebraska. (7) Mostly all ecological field instruments.

Turner, C. L., Marquette Medical School, Milwaukee, Wis. Instructor of Biology. (1) Breeding habits of Protozoa. Reproduction behavior of fishes. (3) Ohio, Wisconsin. (5) Orthoptera, Fish, Crayfishes.

Vorhies, Charles T., University of Arizona, Tucson, Ariz. Professor of Entomology and Entomologist Agricultural Experiment Station (B. S. Ph. D.). (1) Notes on the fauna of Great Salt Lake. (2) Animal ecology of desert regions. (3) To a minor extent in Wisconsin and Utah, becoming more particularly interested in Ecology in Arizona. (4) Iowa, Wisconsin; Ithaca, N. Y.; Utah, Washington, California, Arizona. (5) Aves, Mammalia, Arthropoda, Trichoptera.

Waller, Adolph, Ohio State University, Columbus, Ohio. Fellow in Botany. (1) Distribution of crop plants. (2) Crop ecology. (3) Ohio. (4) Southeastern Kentucky.

Weed, Alfred C., North Rose, N. Y. (2) Have been especially interested in fishes but am now mostly studying native plants for adaptability for house and garden. (3) Ithaca, N. Y. and Washington, D. C. (4) New York, New England and Washington and vicinity. (5) Freshwater fishes and North American orchids. (7) Various forms of nets for collecting fishes and larger plankton.

Winslow, C. E. A., Yale Medical School, New Haven, Conn. Professor of Public Health (M. S., M. A.). (1) Relation of air conditions to health.

CHANGES OF ADDRESS.

Baker, Horace Burrington, care of E. C. Schneider, 218 E. Uintah St., Colorado Springs, Colo.

Bates, Carlos G., Forest Service, Manitou, Colo.

Boerker, Richard H., 104 W. 85th St., New York City.

Bowman, Howard, H. M., Heidelberg University, Tiffin, Ohio.

Clayberg, Harold D., Department Botany, Washburn College, Topeka, Kas.

Crawford, Henry Gordon MacGregor, Department of Entomology, Ontario Agricultural College, Guelph, Ont.

De Forest, H., 2810 Suffolk Ave., Baltimore, Md.

Dice, Lee Raymond, University of Montana, Missoula, Mont.

Du Boise, Henry M., 1408 Washington Ave., La Grande, Ore.

Emerton, J. H., Trinity Court, Darmouth St., Boston, Mass.

Evans, Arthur T., University of Chicago, Chicago, Ill.

Folsom, Donald, Experimental Station, West Raleigh, N. C.

Hildebrandt, F. M., Surgeon General's Office, Washington, D. C.

McCallum, W. B., Continental, Ariz.

Munns, Edw. N., 625 Federal Building, Los Angeles, Calif.

Muttkowski, Richard Anthony, Agricultural College, Manhattan, Kas.

Osburn, Raymond C., Department of Zoology, Ohio State University, Columbus, Ohio.

Peterson, J. L., Forest Service, Portland, Ore.

Petry, Edward J., 115 University St., Lafayette, Ind.

Sampson, Homer C., Department Botany, Ohio State University, Columbus, Ohio.

Titus, E. G., Box 453, Idaho Falls, Ida.

Visher, Stephen S., Land Classifier, U. S. G. S., Washington, D. C.

Waterman, Warren G., Northwestern University, Evanston, Ill.

RESIGNATIONS.

Crow, J. W., Ontario Agricultural College, Guelph, Canada.

LaRue, Carl D., Department of Botany, Syracuse, N. Y.

Morse, Albert P., 10 Upland Road, Wellesley, Mass.

Piemeisel, Robert L., Bureau of Plant Industry, Washington, D. C.

Romer, Caroline, 154 Second Ave., Newark, N. J.

Shaw, Harry B., 248 Custom House, New York, N. Y.

DEATHS.

Hart, Charles A., Natural History Building, Urbana, Ill.